

ANATOMY AND PHYSIOLOGY

THE HUMAN BODY – AN ORIENTATION

Anatomy

- ⇒ Studies the structure of body parts and their relationships.

Physiology

- ⇒ Study of how the body and its parts work or function.

Pathophysiology

- ⇒ Extract invertase from Bayer's yeast

ANATOMY – LEVELS OF STUDY

Gross or Macroscopic Anatomy

- ⇒ Larger structures
- ⇒ Can be seen with the naked eye
- ⇒ Approached of study: **Regional and Systemic Anatomy**

Surface Anatomy

- ⇒ Study of internal structures as they relate to the overlying skin surface.

Microscopic Anatomy

- ⇒ Structures cannot be seen with the naked eye
- ⇒ Structures can only be viewed with a microscope
- ⇒ Subdivisions include **cytology** and **histology**

Developmental Anatomy

- ⇒ Traces structural changes that occur in the body throughout the life span.
- ⇒ **Embryology** – concerns developmental changes that occur before birth.

LANGUAGE OF ANATOMY

- Special terminology is used to prevent misunderstanding
- Exact terms are used for
 1. **Position**
 2. **Direction**
 3. **Regions**
 4. **Structures**

Anatomical Position

- Person stands erect with feet together and eyes forward
- Palms face anteriorly with thumbs pointed away from the body
- Right and left always refers to the sides belonging to the person of specimen being viewed – never to the viewer.
- *Note:* Four legged animals have different anatomical position than humans
 - Their *ventral* is on the *inferior side* and *dorsal* in the *superior side*.
 - In humans, ventral and anterior is the same and so is dorsal and posterior.



Anatomy And Physiology Class Notes

WJ Hussar



Anatomy And Physiology Class Notes:

Lecture Notes for Human Anatomy and Physiology Ann Findley, Amy G. Ouchley, 1999-09-01 *Lecture Notes for Human Anatomy and Physiology* Findley, Ouchley, 1998-08-01 **Innovative Techniques for Large-group Instruction** National Science Teachers Association, 2002 Size does matter When you re faced with a class of 50 150 or even 250 college students it s tough to head off boredom much less promote higher order thinking and inquiry skills But it s not impossible thanks to the professor tested techniques in this collection of 14 articles from the Journal of College Science Teaching The book starts by examining what research shows about the effectiveness of popular teaching styles Surprise Lectures don t stimulate active learning From there the authors offer proven alternatives that range from small scale innovations to completely revamped teaching methods Suggested strategies include using quizzes in place of midterms and finals student forums interactive lectures collaborative groups group facilitators and e mail and computer technology *Human Anatomy and Physiology Lecture Notes* Ann M. Findley, Amy G. Ouchley, 2010-06-03 Nursing School Entrance Exams Barron's Educational Series, Sandra S. Swick, Rita R. Callahan, 2020-01-07 Barron s Nursing School Entrance Exams provides detailed review and practice materials that you need to achieve success on the various Nursing School Entrance Exams including the HESI A2 NLN PAX RN PSB RN RNEE and the TEAS This edition features A multi part exam that covers all of the topic areas and question types seen on most nursing school entrance exams A diagnostic test so you can assess your strengths and weaknesses in each topic area before beginning your review Comprehensive review and practice material for all Verbal Ability Reading Comprehension and Numerical Ability topics An entire review and practice section for all Science topics with each section broken down into an outline format for quick studying and sample tests for every topic Test taking strategies and answers to frequently asked questions about preparing for your entrance exam Strategies for answering each question type You ll also get information about nursing programs and the profession in general **Human Anatomy and Physiology Lecture Notes** Lanier Byrd, 1990* *Works, with Notes* John Hunter (F.R.S.), 1835 **Scholarship of Teaching and Learning in Speech-Language Pathology and Audiology** Sarah M. Ginsberg, Jennifer Friberg, Colleen F. Visconti, 2011-10-05 *The American Catalog* , 1885 *Annual Register of the United States Naval Academy, Annapolis, Md* United States Naval Academy, 1911

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Table of Contents Anatomy And Physiology Class Notes

1. Understanding the eBook Anatomy And Physiology Class Notes
 - The Rise of Digital Reading Anatomy And Physiology Class Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Class Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anatomy And Physiology Class Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Class Notes
 - Personalized Recommendations
 - Anatomy And Physiology Class Notes User Reviews and Ratings
 - Anatomy And Physiology Class Notes and Bestseller Lists
5. Accessing Anatomy And Physiology Class Notes Free and Paid eBooks
 - Anatomy And Physiology Class Notes Public Domain eBooks

- Anatomy And Physiology Class Notes eBook Subscription Services
- Anatomy And Physiology Class Notes Budget-Friendly Options
- 6. Navigating Anatomy And Physiology Class Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Anatomy And Physiology Class Notes Compatibility with Devices
 - Anatomy And Physiology Class Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy And Physiology Class Notes
 - Highlighting and Note-Taking Anatomy And Physiology Class Notes
 - Interactive Elements Anatomy And Physiology Class Notes
- 8. Staying Engaged with Anatomy And Physiology Class Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy And Physiology Class Notes
- 9. Balancing eBooks and Physical Books Anatomy And Physiology Class Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy And Physiology Class Notes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Anatomy And Physiology Class Notes
 - Setting Reading Goals Anatomy And Physiology Class Notes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Anatomy And Physiology Class Notes
 - Fact-Checking eBook Content of Anatomy And Physiology Class Notes
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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